```
   1 ccgcatccta gccgccgact cacacaaggc aggtgggtga ggaaatccag agttgccatg
  61 gagaaaattc cagtgtcagc attcttgctc cttgtggccc tctcctacac tctggccaga
 121 gataccacag tcaaacctgg agccaaaaag gacacaaagg actctcgacc caaactgccc
 181 cagaccctct ccagaggttg gggtgaccaa ctcatctgga ctcagacata tgaagaagct
 241 ctatataaat ccaagacaag caacaaaccc ttgatgatta ttcatcactt ggatgagtgc
 301 ccacacagtc aagcttttaa agaaagtgttt gctgaaaata aagaaatcca gaaattggca
 361 gagcagtttg tcctcctcaa tctggtttat gaaacaactg acaaacacct ttctcctgat
 421 ggccagtatg tccccaggat tatgtttgtt gacccatctc tgacagttag agccgatatc
 481 actggaagat attcaaatcg tctctatgct tacgaacctg cagatacagc tctgttgctt
 541 gacaacatga agaaagctct caagttgctg aagactgaat tgtaaagaaa aaaaatctcc
 601 aagcccttct gtctgtcagg ccttgagact tgaaaccaga agaagtgtga gaagactggc
 661 tagtgtggaa gcatagtgaa cacactgatt aggttatggt ttaatgttac aacaactatt
 721 ttttaagaaa aacaagtttt agaaatttgg tttcaagtgt acatgtgtga aaacaatatt
 781 gtatactacc atagtgagcc atgatttct aaaaaaaaaa ataaatgttt tgggggtgtt
 841 ctgttttctc caacttggtc tttcacagtg gttcgtttac caaataggat taaacacaca
 901 caaaatgctc aaggaaggga caagacaaaa ccaaaactag ttcaaatgat gaagaccaaa
 961 gaccaagtta tcatctcacc acaccacagg ttctcactag atgactgtaa gtagacacga
1021 gcttaatcaa cagaagtatc aagccatgtg ctttagcata aagaatatt tagaaaaaca
1081 tcccaagaaa atcacatcac tacctagagt caactctggc caggaactct aaggtacaca
1141 ctttcattta gtaattaaat tttagtcaga ttttgcccaa cctaatgctc tcagggaaag
1201 cctctggcaa gtagctttct ccttcagagg tctaatttag tagaaaggtc atccaaagaa
1261 catctgcact cctgaacaca ccctgaagaa atcctgggaa ttgaccttgt aatcgatttg
1321 tctgtcaagg tcctaaagta ctggagtgaa ataaattcag ccaacatgtg actaattgga
1381 agaagagcaa agggtggtga cgtgttgatg aggcagatgg agatcagagg ttactagggt
1441 ttaggaaacg tgaaaggctg tggcatcagg gtaggggagc attctgccta acagaaatta
1501 gaattgtgtg ttaatgtctt cactctatac ttaatctcac attcattaat atatggaatt
1561 cctctactgc ccagcccctc ctgatttctt tggcccctgg actatggtgc tgtatataat
1621 gctttgcagt atctgttgct tgtcttgatt aactttttg gataaaacct ttttgaaca
1681 gaaaaaaaaa aaaaaaaaa a
```

FIG. 1

```
  1 MEKIPVSAFLLLVALSYTLARDTTVKPGAKKDTKDSRPKL
 41 PQTLSRGWGDQLIWTQTYEEALYKSKTSNKPLMIIHHLDE
 81 CPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSP
121 DGQYVPRIMFVDPSLTVRADITGRYSNRLYAYEPADTALL
161 LDNMKKALKLLKTEL
```

FIG. 2

```
  1 ggcaaccctt gcggctcaca caaagcagga gggtgggaag cccagatttg ccatggagaa
 61 attttcagtg tctgcaatcc tgcttcttgt ggccatttct ggtaccttgg ccaaagacac
121 cacagtcaaa tctggagcca aaaaggaccc aaaggactct cggcccaaac tacctcagac
181 actctccaga ggttggggcg atcagctcat ctggactcag acatacgaag aagctttata
241 cagatccaag acaagcaaca gacccttgat ggtcattcat cacttggacg aatgcccaca
301 cagtcaagcc ttaaagaaag tgtttgctga acataaagaa atccagaaat tggcagagca
361 gtttgttctc ctcaacctgg tctatgaaac aaccgacaag cacctttctc ctgatggcca
421 gtacgtcccc agaattgtgt ttgtagaccc atccctgacg gtgagggcag acatcactgg
481 acgatactca aaccggctct acgcttatga accttctgac acagctttgt tgtacgacaa
541 catgaagaaa gctctcaagc tgctaaagac agaattgtag agctaactgc gcaccgggtc
601 aggagaccag aaggcagaag cactgtggac ttgcagatta cagtacagtt taatgttaca
661 acagatatat tttttaaaca cccacaggtg gggaaacaat attattatct actacagtga
721 agcatgattt tctagaaaat aaagtcttgt gagaactcca aaaaaaaaaa aaaaaaaaaa
```

FIG. 3

MEKFSVSAILLLLVAISGTLAKDTTVKSGAKKDPKDSRPKLPQTLSRGWGDQLIWTQTYEEALYRS
KTSNRPLMVIHHLDECPHSQALKKVFAEHKEIQKLAEQFVLLNLVYETTDKHLSPDGQYVPRIVF
VDPSLTVRADITGRYSNRLYAYEPSDTALLYDNMKKALKLLKTEL

FIG. 4

```
  1 cggcaaccct tgcggctcac acaaagcagg agggaggaga gctcagattt gccatggaga
 61 aattttcagt ctcggcaatc ctgcttcttg tggccatctc tggtactctg gccaaagaca
121 ccacagtcaa atctggatcc aaaaaggacc caaaggactc tcgacccaaa ctaccccaga
181 ccctgtccag aggttgggga gatcagctca tctggactca gacttacgaa gaagccttat
241 acaaatccaa gacaagcaac agacccttga tggtcattca tcacttggac gaatgcccgc
301 acagtcaagc tttaaagaaa gtgtttgctg aaaataagga gatccagaaa ttggcagagc
361 agtttgttct cctcaacttg atctatgaaa caactgacaa gcacctttct cctgatggcc
421 agtacgtccc cagaattgtg tttgtggacc cttccctgac ggtgagggca gacatcaccg
481 gaagatactc aaaccgtctc tacgcttacg aaccttctga cacagctctg ctgcacgaca
541 acatgaagaa agctctcaag ttgctgaaga cagagttgta gagtcaactg tacagtgcct
601 caggagccgg gaaggcagaa gcactgtgga cctgccgatg acattacagt ttaatgttac
661 aacaaatgta ttttttaaac acccacgtgt ggggaaacaa tattattatc tactacagac
721 acatgatttt ctagaaaata aagtcttgtg agaactcc
```

FIG. 5

MEKFSVSAILLLVAISGTLAKDTTVKSGSKKDPKDSRPKLPQTLSRGWGDQLIWTQTYEEALYKS
KTSNRPLMVIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLIYETTDKHLSPDGQYVPRIVF
VDPSLTVRADITGRYSNRLYAYEPSDTALLHDNMKKALKLLKTEL

FIG. 6

```
   1  AACCCTAGTT ACCTCACACC AAGACAGATA TGCCAAAGAT TCCACAGCCT

  51  CAATAGCATG TGTAGGATAT CTGCTAATAA TTACCTCCTC CTTGCCATCC

 101  GTCAGCCACT ATGACAAACT CTGGGTTTTT CCTGACATGA GATTAGGCAC

 151  ATGAGTATAG AATAATTATA TCACTATAAT TAACTGTAAC AAATCAAAGA

 201  CTTTTTTTTT TAAGTTCCGG AGTATGTGTG TAGGATGTGC AGGTTTGTTC

 251  CATCAGTAAA CGTGTGCCAT GGTGGTTTGC TGCACTGATC AACCCAACAA

 301  CTAGGTCTTA AGCCAGCCTG CATTAGCTAC TTTTATCAAA TGTTATGGGC

 351  TGAATTGTGT CCCCCCCAAA AATTCATATG TTGAAGTCTT AATCCCCAGG

 401  ACTTCAGAAT AGGATCTTTA CAGAGGTAAT TAAGTTAAAG TAGGTCATTA

 451  GGCAGGACCC AAATACAATA TGACTGGTGT CCTTATAAGA AAAGGAAAAA

 501  AATGACACAG ACAGGTACAG AGGGAAAAAC CATGTGGCAA TACAGGGAAA

 551  AGTCATTTAA TATTCAAAAT GGTCCCATAT GTTAATATTA TCCCCATATT

 601  ATAGATGGAG AAACTGAAGT TTTGGGGATG TTAAATGAGA TCTCAGATCA

 651  TCCTATGAGC AAGCACCAGG ATGCAGGATT CAGATGGGAA TCTCGTGACT

 701  CCAAATCCCA TCCACTTGTT ACTTTCAGTG GATAAGGGAC TGAAGGACTT

 751  TGGTCCCAAC TCTGCCCTAA ACTAGTTGTG AGACCTTCAA AAAGTTATGA

 801  ATTTTTTGCC ATCTTCATTT ATTCATCTGT AAAATGAAAG ACTGGAATTG

 851  AATATTACAA GGGTCTATCT AAGGGCCTGC TAGTTTTAAG AATTTTGCTC

 901  AAATCATCGT TTTCAAACTC CTGAAGAAAT TACTTCTATA AATTCATTAG

 951  AATTGAAAGG AAATTCAGTA TTTGGAGAAT CACGATTTTG CCCACAGAAT

1001  TCAAGGATTT ATTGGAAAAA TATACATACT TGCAAATGTT TTTGAAATAT

1051  TATGACCTTA ACTCATTTTA AAAGTCATT TATATAGGGC TTGCATCCCA

1101  TTCATTAACT TTCTGTTGTT AACATTTTCT TCATTCTGAG CTTTTAAAGA

1151  CTGCACACAA CTTCATGAAC AAAATACAGG ATTAAAATTT TCTGACAGAA

1201  AATTTAAATT CCAGTTTTAA AATCTTCAGG GAGTAATTAA ATGGTCTTGA

1251  GGGGAAAAAA AACTTGGTTG CAGACCTTAG TTTTTAGGTC TGAGAAAATG
```

```
1301    GAGTAAATGG CTTCCTGCTT GCGTGGCAGG AAAGTTTGCC TTTAAATAAG

1351    AGATTATCTG TGAAATACCT TTGAACTCTG TGGAGGGAAG TTGCTGCATA

1401    CATTCAATGG CAAGGCATTT ATTACAAGCT CACGATATTA GGCTGTTTTT

1451    TTTTTTTTTT TTGCCAATAC TTCCTCAGTT TTGAAAAATT ACGTGGGTTA

1501    CTTGATTTGT ATTTTTTTTC ATACCTGTAG AAGTTAGGGT GCATTGTTTT

1551    GACAGGAGCA GGGAAGTATT GTAGAAAATA ATTTTTATCA TAATGGAGTA

1601    TGGCAGGTTA TATGACTGCG AGGATCAGAA TTGTGAATCA TCTCTTGTGT

1651    GTCTTCAAGT AAATAAAGGC AATCTGCCCA CGGAGCAGAA AAAAAATCTA

1701    CAAACTACAA ACTCTGTCCA ATCATGTAAA GACAAATCAG CCTTCAGGCA

1751    AATCAAATGT CTTCATTCAA AGTCTACCTG GATTTGGCAC TCTGCCCATC

1801    GTTTCAAAAC CTCTTAACAA TACGTTTCAC AAATAGTTAA AAACATGCAT

1851    ACTGAAAAGC ATACTTTTGC AATGTTATTT TTAAAAACAA GGAACTCTTT

1901    AACCCAGGGA AGATAATCAC TTGGGGAAAG GAAGGTTCGT TTCTGAGTTA

1951    GCAACAAGTA AATGCAGCAC TGGTGGGTGG GATTGAGGTG TGCCCTGGTG

2001    CATAAATAGA GACTCAGCTG TGCTGGCACA CTCAGAAGCT TGGACCGCAT
```

FIG. 7

```
   1  AAAGGTCTAG  AAAGAAACCT  TTTAAATGAG  TGAACTTTAC  CATACCTAGA

  51  AATGCTGTGG  GCTAGTGACT  CTTGAAATAA  CTCCATTTGC  TTATGCTTCT

 101  AAAAGGTCTA  CAGAGACCAT  TTTTTTAAAA  GATGATTGAT  TAAAAAAAAC

 151  TGATTTGAGG  TAAAAACCTT  AACTAGAATT  GCTCTCACAT  ATCTAAATAT

 201  CACTATTTAG  CCTTTAGTTC  TATTCAAACC  ATTATTTTAC  AGATTAGAAA

 251  CACCAAACAA  ACGATTAAGC  AAACAAAAAT  AGAACAGTCA  ATAGTTTTCT

 301  AAAGGCCCTA  CAATTAGTTG  AGGGCAGAGC  TAGGAGGAAA  GCCAGGGCTC

 351  TTCTACTCCA  CTATCTTAGG  CATTGGGAAA  TGGGTGGGAT  TTCGGGTCAA

 401  TTACAGTCAG  CATCCTGCTT  CCACACTCTG  GATGATGATA  TCAGAGGTGA

 451  CACTGAACAC  CCTGAAACTT  TAGTTTCCAC  GCCTGTAACA  GAGTTCCATG

 501  CAACAGTTCA  GAGCGACATA  GTCGTGAACA  TAGAGTGAAC  TGAGGAAGAG

 551  GAAGAGGCTT  GGGATGAACG  TAGGGTCCCT  GCTTCCACAG  GAACAGGACA

 601  GCCTGGGAGG  CTGAAGCATC  GGCGATTCAC  CTTCGCTCAA  TCCTGGAGGC

 651  TCCACACAGA  CCATTGATGT  GTCAGCAGCG  TTAGGTTCTT  CTCTTCTTGG

 701  CCTGTAGATG  AAGTCATTAT  GTGCCTGTGT  CTCTGACCTA  AGTTTCTTTC

 751  CTATGAGAAT  AACAGTCATA  TTAGATTAGA  ACCCAGTCTA  ATGACCTATT

 801  TCACTTACTT  TAAATTTCTT  ATTCATTTAT  TTCAATTACT  TTCATTTTAT

 851  TTACTTACTG  TGGTACTTAG  AATCAAATTC  AGAGCCTTGC  ACATACTTAA

 901  CAAATGCTTA  ATCTCTCTTT  AAGACCCTCT  CTCTGTGTAT  GATCATCTGA

 951  TGAGGTCCTG  GGAATTACAG  CACATGGATT  CCTTTAAAAC  ACATCTCAAC

1001  CATACCTCTT  GGTAATTAAA  AACATCTCTA  ATTTGCTGTA  ATTCACTATA

1051  ATGATATAAC  AGCTATCCTG  GAGTATTCCT  GTGTCTAATT  TCATGCTGGT

1101  AAAGCTCTGG  TTATGGTACA  ACAAAGATGA  GGTAATTATT  ACAACATCCT

1151  GCACATACTG  GGGTATCTGT  GGCATCCTTG  GTACATCAGT  CCTGAAACGA

1201  AGCCAATATC  TACAGTAGCT  TTGAGATGCG  TAGGCGAGGG  TAATTCTTTT

1251  ATGCTACTGA  GGTGGTACTG  TGTGGTCATT  CTTTGTGATC  TCCTGATGTT

1301  GCGATGCACA  CCCACAAACA  CACATTTGTA  CACATATATT  AATCATCAGG
```

```
1351  GCCATTATTA  GCTCACAACA  TTATCCTATC  CTTCCTTTCT  TCAATAACCT

1401  CTCCGAGTTT  GAAGAGTCCA  TGGCGATGAT  TTGCGGGGTT  TATACCTGTG

1451  ATTAAAGCGC  ACACAAAAA  TGATATTGTG  GAAAATAACA  TGTCTTGTGA

1501  TCGAGCATGG  CCAGCTGTAT  AACTGTAAGA  AGGATTAGAA  CTGTGAATCA

1551  TCCTTAAGAA  AAAAAAAAA  AAAAAAAAG  CTAAATAAAT  GCAATCTGCC

1601  CAAGAGGGAG  GAAATGAATA  CCTATAAACC  ACAACTTCTA  TCCAATCACA

1651  TACAGACAAA  TCAGCCTTCA  GACCAATCAA  ACGTCTTCAT  TTAAAGCTTA

1701  CCTGGACTTG  GCATACTGCC  CAGCTTTTCC  AAAACTACTC  ACAATAATAC

1751  CTTCAACAAC  AGTTAAAAAA  CGCTGGTACT  CAAACAAAAT  CAACAGCCTT

1801  TTCAACGACT  GCTTTAAAAA  AGACCAAACA  AACAAACAAG  GAACGTCTTA

1851  ACCCAGAGAA  GACAATTGCT  TGGGAGAGGA  AAAGTTTGCT  TCTGAGTTAG

1901  CAGCCTGTGG  AAACAGGATT  AGTGGGTGGG  ATTGGGGTGT  GCTCTGCCCA

1951  TAAATACAGG  CTCAGCGCTG  CGCTGGCACA  CTGAGAAACT  TGGACGGCAA

2001  CCCTTGCGGC  TCACACAAAG  CAGGAGGGTG  GGAAGCCCAG  GTAAGGCAAT
```

FIG. 8